

ELECTRONICALLY ENHANCED SUPER 10

CONCEPT PROTOTYPE FOR FEASIBILITY AND MARKET EVALUATION

PROJECT GOAL:

To create a concept prototype / demo vehicle to demonstrate product concepts simultaneously and serve as a QFD tool to assess market value by fleet drivers and managers.

TARGET CONCEPTS:

- 1) Top - 2 - automated 9-10 and 10-9 shifts
- 2) AutoSplitter - splitter shifts automated in all lever positions
- 3) AutoStick - assisted lever shifts in all gears plus automated splitter shifts
 - a) Option 1
 - b) Option 2

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AUTOSTICK POSSIBLE VARIATIONS

- a) No "lever-sense" switch
- b) With "lever-sense" pad switch
- c) with mainshaft speed sensor (risk, devel needed)
- d) Manual "up-down" switch
- e) "a)" or "b)" with simple "desired gear" display
- f) any with AutoSelect type gear display
- g) mechanical sensing of stick position
- h) mechanical blocking of stick position

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PROJECT TIMING

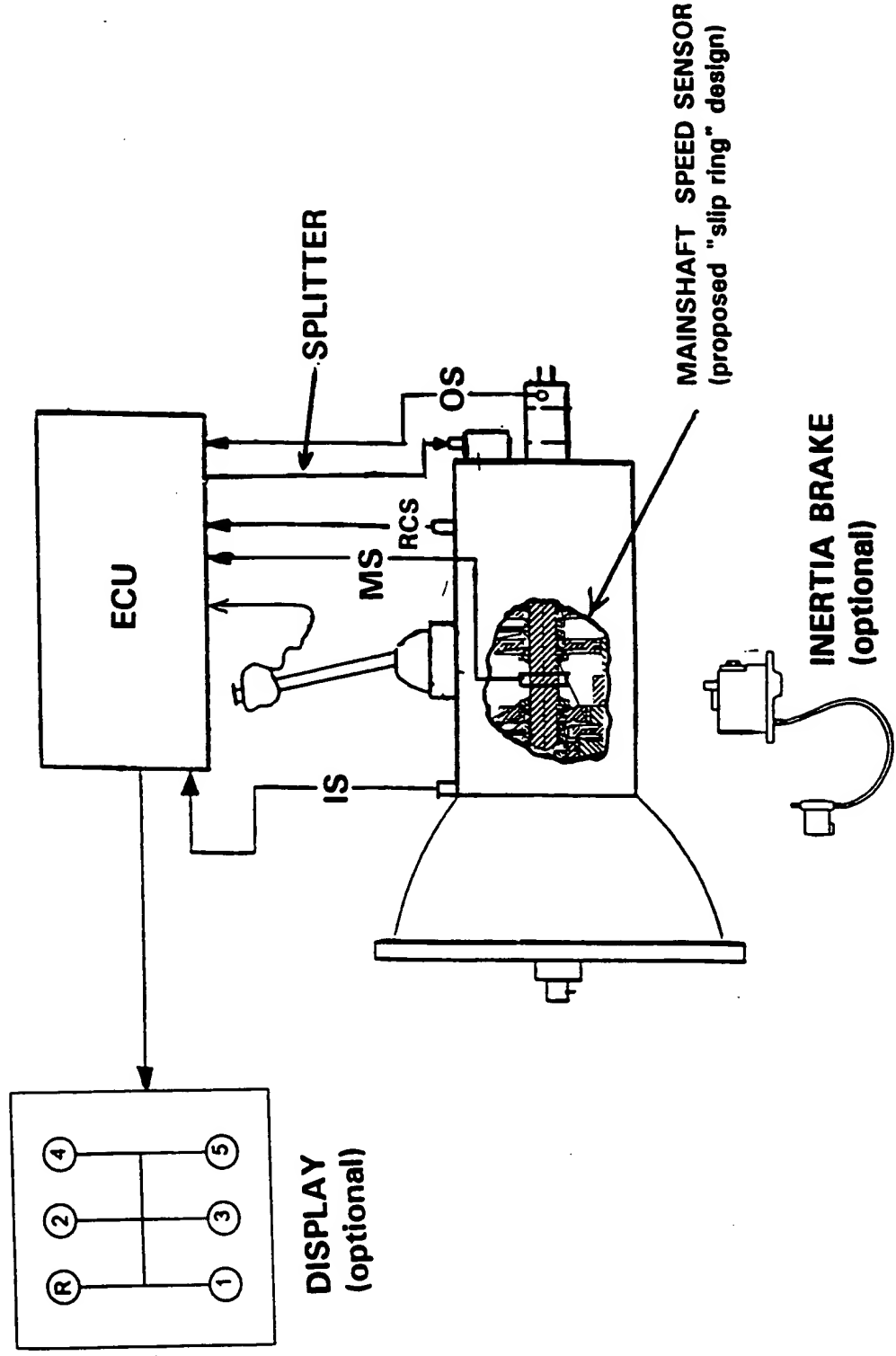
<u>Task</u>	<u>Duration</u>
1) Build vehicle and design software	2 months
2) Software integration and devel.	3 months
> > First demo to TCONA	at 5 months
3) Demonstrate to fleets, review results, revise, and re-demo	3 months
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Total Duration	8 months

TOTAL PROJECT COST = \$350,000

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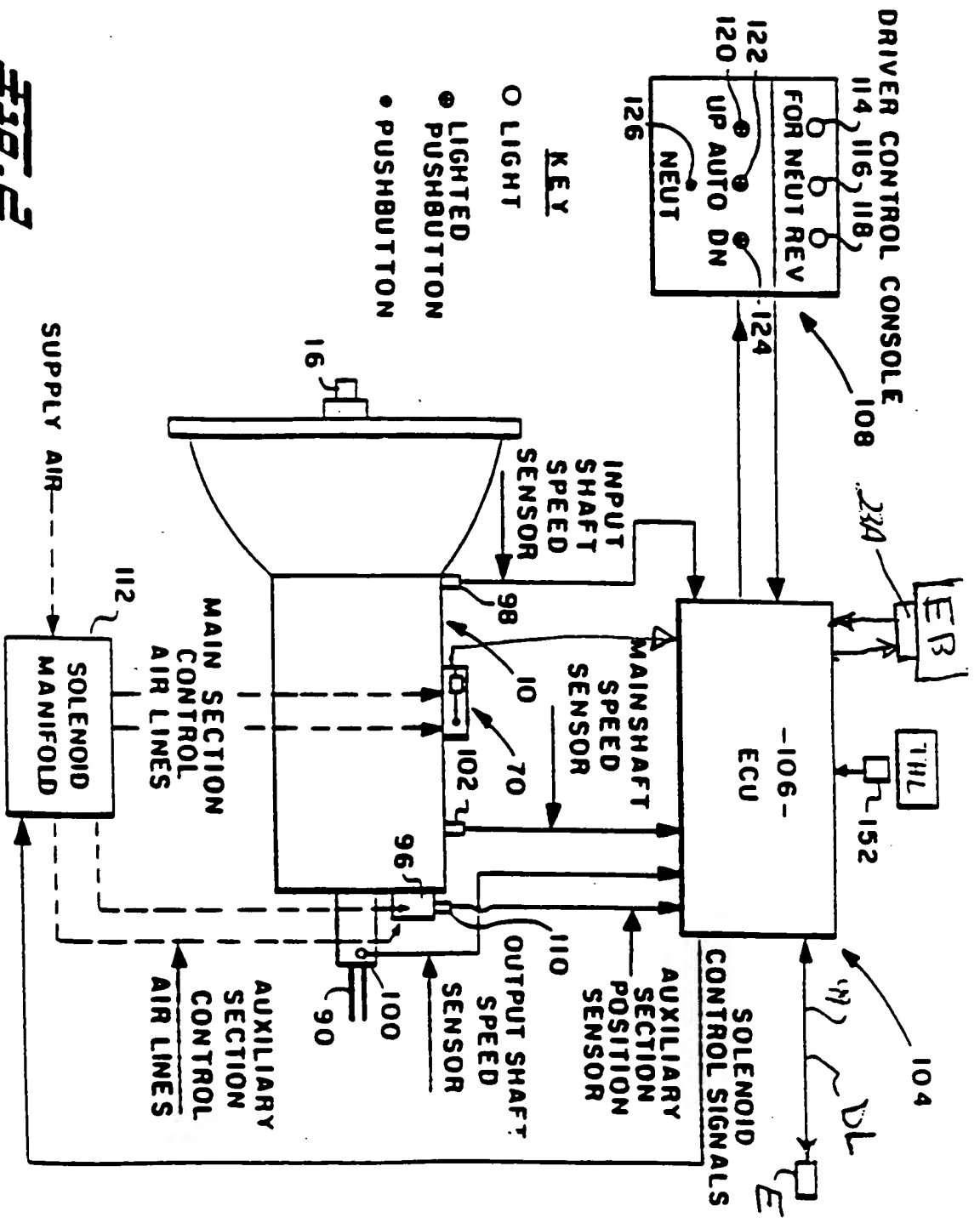
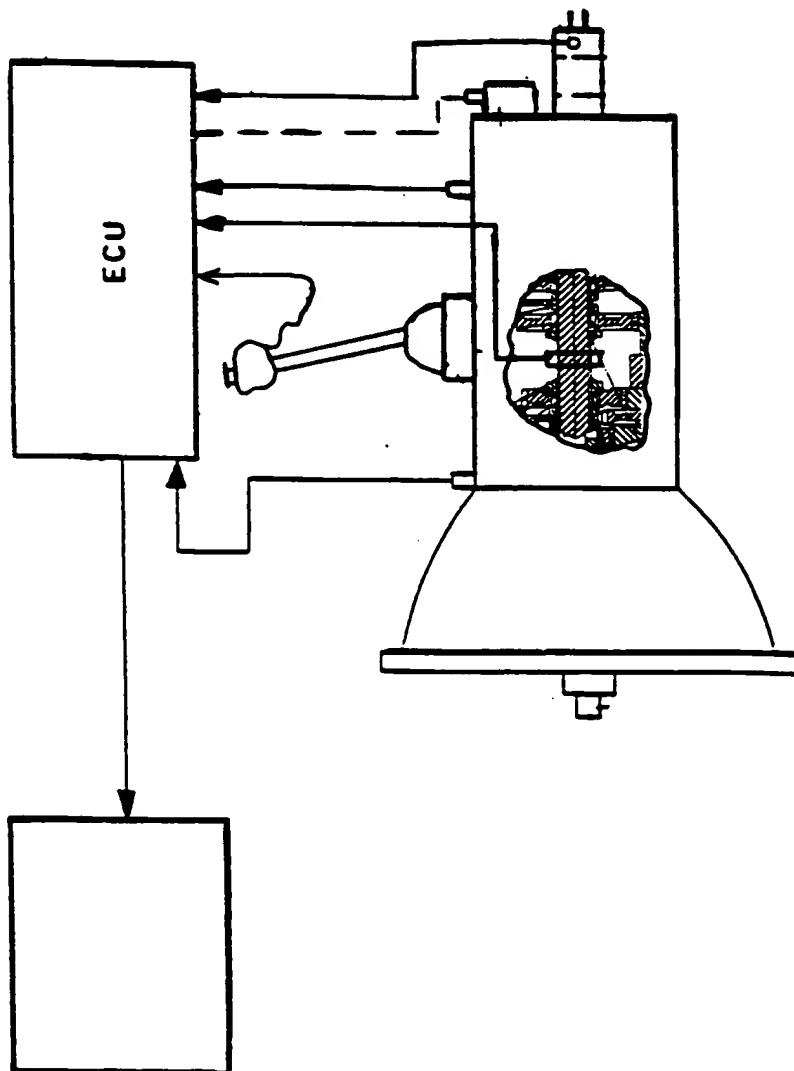


Fig. 2



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AUTOSTICK POSSIBLE VARIATIONS

- a) No "lever-sense" switch, no mainshaft speed sensor
- b) With "lever-sense" pad switch, no mainshaft speed sensor
- c) No "lever-sense" switch, with mainshaft speed sensor
- d) With "lever-sense" switch and mainshaft speed sensor
- e) Manual "up-down" switch
- f) "a)" or "b)" with simple "desired gear" display
- g) any with AutoSelect type gear display
- h) mechanical sensing of stick position
- i) mechanical blocking of stick position

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